

Expense Report

Digikey 1

Vendor Name	Digikey			Vendor Website	Digikey.com
Vendor Address	701 Brooks Avenue South, Thief River Falls, MN 56701			Vendor Phone	1-800-344-4539
Quantity	Part Number	Description	Price	Extended	
4	NGTB50N120FL2WGOS-ND	IGBT Trench Field Stop 1200V 100A 535	\$9.80	\$39.20	
2	296-34888-5-ND	2.5A Gate Driver Capacitive Coupling 42	\$7.54	\$15.08	
			TOTAL	\$54.28	

Digikey 2

Vendor Name	Digikey			Vendor Website	Digikey.com
Vendor Address	701 Brooks Avenue South, Thief River Falls, MN 56701			Vendor Phone	1-800-344-4539
Quantity	Part Number	Description	Price	Extended	
3	MAX15046AAEE+	40V High Performance Synchronous Buck	\$3.68	\$11.04	
10	IRL2505PBF-ND	Power MOSFET	\$2.70	\$27.00	
1	374-1377-ND	Inductor	\$9.49	\$9.49	
			TOTAL	\$47.53	

Digikey 3

Vendor Name	Digikey			Vendor Website	Digikey.com
Vendor Address	701 Brooks Avenue South, Thief River Falls, MN 56701			Vendor Phone	1-800-344-4539
Quantity	Part Number	Description	Price	Extended	
5	CSSH2728FT4L00	4m Ohm current sense resistor	\$1.25	\$6.25	
5	A759PY337M1JAAE042	330 uF Capcitor	\$4.56	\$22.80	
2	PQ3218-6R0-50-T	Not digikey: Inductor https://www.onlinedatasheet.com/	\$9.31	\$18.62	
15	CSD18537NKCS	N-channel MOSFET	\$1.34	\$20.10	
4	6400BG	Heatsink	\$2.65	\$10.60	
2	LTC3892EUH#PBF	Buck Regulator DC Controller	\$10.76	\$21.52	
8	06033C104KAT4A	0.1 uF Capacitor	\$0.17	\$1.36	
5	ERJ-14NF4322U	43.2k Surface Mount resistor	\$0.26	\$1.30	
5	RR0816P-104-D	100k Ohm resistor	\$0.11	\$0.55	
5	RC0603FR-071K74L	1.74k Ohm resistor	\$0.10	\$0.50	
5	ERA-3AEB1372V	13.7k Ohm resistor	\$0.35	\$1.75	
5	RC0603FR-0760K4L	60.4k Ohm resistor	\$0.10	\$0.50	
6	CL10B154KB8VPNC	150 nF (also 140nF)	\$0.18	\$1.08	
5	74651195R	9 pin Shank Terminal	\$3.23	\$16.15	
5	C2012X7R1A475K085AC	4.7(3) uF	\$0.28	\$1.40	
5	C0805C391J5GACTU	390 pF	\$0.17	\$0.85	
6	06035A102JAT2A	1 nF	\$0.16	\$0.96	
5	C1206C225K5RACAUTO	2.2 uF	\$0.35	\$1.75	
5	C0603C151J5GACTU	150 pF	\$0.10	\$0.50	
3	22205C106K4Z2A	10 uF	\$2.24	\$6.72	
10	RC0603JR-070RL	0 ohm resistor	\$0.10	\$1.00	
5	CC0603JRNPO9BN101	100 pF	\$0.10	\$0.50	
			TOTAL	\$136.76	

Digikey 4

Vendor Name	Digikey			Vendor Website	Digikey.com
Vendor	701 Brooks Avenue South, Thief River Falls, MN 56701			Vendor Phone	1-800-344-4539

Address					
Quantity	Part Number	Description	Price	Extended	
	5	CSD18537NKCS	N-channel MOSFET	\$1.34	\$6.70
	10	ERJ-14NF3162U	31.6k Surface Mount resistor	\$0.22	\$2.20
	10	ERA-3AEB1692V	16.9k Ohm resistor	\$0.30	\$3.00
	5	C2012X7R1A475K085AC	4.7 uF	\$0.28	\$1.40
	10	C0805C621J5GAC7800	620 pF	\$0.32	\$3.23
	10	06035A102JAT2A	1 nF	\$0.16	\$1.60
	10	C1206C225K5RACAUTO	2.2 uF	\$0.35	\$3.50
	10	C0603C241J5GAC7867	240 pF	\$0.27	\$2.70
	3	22205C106K4Z2A	10 uF	\$2.24	\$6.72
	0	RC0603JR-070RL	0 ohm resistor	\$0.10	\$0.00
	5	CC0603JRNPO9BN101	100 pF	\$0.10	\$0.50
	10	RC0603JR-072ML	2 Mohm	\$0.22	\$2.20
	10	AC0603FR-07200KL	200 kohm	\$0.23	\$2.30
	10	ERJ-3BQF2R2V	2.2 ohm	\$0.28	\$2.80
	3	LTC3892EUH#PBF	Buck reg ic	\$10.76	\$32.28
	4	6400BG	Heatsink	\$2.65	\$10.60
				TOTAL	\$81.73
Mouser 1					
Vendor Name	Mouser		Vendor Website	mouser.com	
Vendor Address	1000 North Main Street Mansfield, TX 76063 USA		Vendor Phone	(800) 346-6873	
Quantity	Part Number	Description	Price	Extended	
	3	994-SER2918H-103KL	10 uH Inductor	\$5.96	\$17.88
	2	A759PY337M1JAAE042	330 uF	\$4.56	\$9.12
				TOTAL	\$27.00
Mouser 2					
Vendor Name	Mouser		Vendor Website	mouser.com	
Vendor Address	1000 North Main Street Mansfield, TX 76063 USA		Vendor Phone	(800) 346-6873	
Quantity	Part Number	Description	Price	Extended	
	1	994-SER2918H-103KL	10 uH inductor	\$5.96	\$5.96
	5	A759PY337M1JAAE042	330 uF	\$4.56	\$22.80
	3	LTC3892EUH#PBF	Buck reg ic	\$10.78	\$32.34
	10	06033C104KAT4A	0.1 uF Capacitor	\$0.17	\$1.70
	10	CL10B154KB8VPNC	150 nF (also 140nF)	\$0.18	\$1.80
				TOTAL	\$64.60
JLC 1					
Vendor Name	JLCPCB		Vendor Website	jlcpcb.com	
Vendor Address	27th Floor, Olympics Building, Shangbao Road, Futian District, Shenzhen, Guangdong, China		Vendor Phone	86 755 2391 9769	
Quantity	Order Number	Description	Price	Extended	
	1	Y2-2469621A	2 Layer PCB V1	\$78.74	\$78.74
				TOTAL	\$78.74
JLC 2					

Vendor Name Vendor Address	JLCPCB		Vendor Website	jlcpcb.com	
	27th Floor, Olympics Building, Shangbao Road, Futian District, Shenzhen, Guangdong, China		Vendor Phone	86 755 2391 9769	
Quantity	Order Number	Description	Price	Extended	
1	Y2-2469621A	4 Layer PCB V1	\$137.06	\$137.06	
1	Y2-2469621A	PCB Quality Complaint	-\$123.53	-\$123.53	
			TOTAL	\$13.53	
		JLC 3			
Vendor Name Vendor Address	JLCPCB		Vendor Website	jlcpcb.com	
	27th Floor, Olympics Building, Shangbao Road, Futian District, Shenzhen, Guangdong, China		Vendor Phone	86 755 2391 9769	
Quantity	Order Number	Description	Price	Extended	
1	Y2-2469621A	2 Layer PCB V2	\$27.74	\$27.74	
			TOTAL	\$27.74	
		Parts List for Final Design			
Quantity	Order Number/Part Number	Description	Price	Extended	
1	Y2-2469621A	2 Layer PCB V2	\$27.74	\$27.74	
1	LTC3892EUH#PBF	Buck Regulator DC Controller	\$10.76	\$10.76	
1	ERA-3AEB1692V	16.9k Ohm resistor	\$0.30	\$0.30	
1	C2012X7R1A475K085AC	4.7 uF	\$0.28	\$0.28	
1	C0805C621J5GAC7800	620 pF	\$0.32	\$0.32	
2	994-SER2918H-103KL	10 uH inductor	\$5.96	\$11.92	
5	A759PY337M1JAAE042	330 uF	\$4.56	\$22.80	
5	06033C104KAT4A	0.1 uF Capacitor	\$0.17	\$0.85	
2	CL10B154KB8VPNC	150 nF (also 140nF)	\$0.18	\$0.36	
1	C1206C225K5RACAUTO	2.2 uF	\$0.35	\$0.35	
1	C0603C241J5GAC7867	240 pF	\$0.27	\$0.27	
1	22205C106K4Z2A	10 uF	\$2.24	\$2.24	
4	6400BG	Heatsink	\$2.65	\$10.60	
2	CC0603JRNPO9BN101	100 pF	\$0.10	\$0.20	
4	CSD18537NKCS	N-channel MOSFET	\$1.34	\$5.36	
1	ERJ-14NF3162U	31.6k Surface Mount resistor	\$0.22	\$0.22	
4	74651195R	9 pin Shank Terminal	\$3.23	\$12.92	
2	CSSH2728FT4L00	4m Ohm current sense resistor	\$1.25	\$2.50	
1	RC0603FR-0760K4L	60.4k Ohm resistor	\$0.10	\$0.10	
1	RR0816P-104-D	100k Ohm resistor	\$0.11	\$0.11	
1	RC0603FR-071K74L	1.74k Ohm resistor	\$0.10	\$0.10	
2	RR0816P-104-D	100 Ohm resistor	\$0.12	\$0.24	
1	-	Burton 7.5 kVA transformer	-	-	
7	36DX9302	31000 uF Capacitors	-	-	
3	IN4044	Power Diodes	-	-	
1	IN4045	Power Diode	-	-	
1	-	200 ohm 25W power resistor	-	-	
1	TMC50-100-ND	100 ohm 50W power resistor	-	-	
			TOTAL	\$110.54	
Total Parts Cost:	Total Parts Cost w/o Provided Parts Orders:	Total PCB Cost:			
\$411.90	\$310.09	\$120.01			